

ABSTRACT

It is an object of the invention to, even in the case where transported liquid containing a sedimenting material such as slurry is used, prevent the sedimenting material from stagnating and collecting in an extending and contracting portion of a bellows. In order to attain the object, a bellows 7 that is extendingly and contractingly deformable in the axial direction is placed in a pump body 1 with setting the axis B of the bellows vertical so as to be driven to perform extending and contracting deformation, and form a liquid chamber 9 inside the bellows 7. A suction port 18 and a discharge port 19 are formed in an inner bottom face 4a of the pump body 1 facing the liquid chamber 9. Liquid is sucked from the suction port 18 into the liquid chamber 9 by extension of the bellows 7, and the liquid in the liquid chamber 9 is discharged from the discharge port 1 by contraction of the bellows 7. The extending and contracting portion of the bellows 7 which is configured by forming ridge-like folds 71 and valley-like folds 72 in a vertically alternate and continuous manner is formed into a shape in which the lower one of upper and lower lamella portions 71a and 71b of each of the ridge-like folds 71, or the lower lamella portion 71b is downward inclined as moving toward the axis B, not only in an extending state but also in a contracting state. Even in the case where liquid containing a sedimenting material such as slurry is

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used, therefore, the sedimenting material can be prevented from sedimenting and stagnating in the extending and contracting portion of the bellows 7.

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